

**Experiment Number:** 99013-03  
**Test Type:** 18-WEEK PN  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**Test Compound:** Styrene-acrylonitrile trimer  
**CAS Number:** SANTRIMER2

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:43:08  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**C Number:** C99013  
**Lock Date:** 02/18/2004  
**Cage Range:** All  
**Date Range:** All  
**Reasons For Removal:** All  
**Removal Date Range:** All  
**Treatment Groups:** All  
**Study Gender:** Both  
**PWG Approval Date:** NONE

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Test Type: 18-WEEK PN

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Styrene-acrylonitrile trimer

CAS Number: SANTRIMER2

Date Report Requested: 10/22/2014

Time Report Requested: 00:43:08

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male  
0 PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	2	2	2	2	2	2	2	2	2	2
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	1	0
	1	2	3	4	5	6	7	8	9	0

\*TOTALS

Alimentary System

Esophagus	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	10
Clear Cell Focus		X						X			2
Inflammation, Chronic	1	1	1	1	1	1	1	1	1	1	10 1.0
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Basophilic Focus			1								1 1.0
Infiltration Cellular, Mononuclear CI		1	1	1		1	1	1			6 1.0
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10
Glands, Ectasia		1									1 1.0

Cardiovascular System

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
Heart	+	+	+	+	+	+	+	+	+	+	10
Cardiomyopathy	1	1	1	1	1	1	1	1	1	1	10 1.0

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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 Species/Strain: Rat/F 344/N

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 CAS Number: SANTRIMER2

Date Report Requested: 10/22/2014  
 Time Report Requested: 00:43:08  
 First Dose M/F: NA / NA  
 Lab: BAT

**F 344/N Rat Male**  
**0 PPM**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	2	2	2	2	2	2	2	2	2	2
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0

**\*TOTALS**

**Endocrine System**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	10
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
Hemorrhage							1				1 1.0
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10

**General Body System**

NONE

**Genital System**

Epididymis	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active			1								1 1.0
Preputial Gland	+	+	+	+	+	+	+	+	+	+	10
Inflammation	1	1	1			2	1	1			6 1.2
Prostate	+	+	+	+	+	+	+	+	+	+	10
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	10
Testes	+	+	+	+	+	+	+	+	+	+	10
Germinal Epith, Degeneration							1				1 1.0

**Hematopoietic System**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Lymph Node		+									1

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Route: DOSED FEED

Species/Strain: Rat/F 344/N

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Test Compound: Styrene-acrylonitrile trimer

CAS Number: SANTRIMER2

Date Report Requested: 10/22/2014

Time Report Requested: 00:43:09

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male  
0 PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	2	2	2	2	2	2	2	2	2	2
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0
	<b>*TOTALS</b>									

Lymph Node	+										1
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	0
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Granulomatous								1			1 1.0
Spleen	+	+	+	+	+	+	+	+	+	+	10
Thymus	+	+	+	+	+	+	+	+	+	+	10
<b>Integumentary System</b>											
Mammary Gland	+	+	+	+	+	+	+	+	+	+	10
Skin	+	+	+	+	+	+	+	+	+	+	10
<b>Musculoskeletal System</b>											
Bone	+	+	+	+	+	+	+	+	+	+	10
<b>Nervous System</b>											
Brain	+	+	+	+	+	+	+	+	+	+	10
<b>Respiratory System</b>											
Lung	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic	1	1	1	1		1					5 1.0
Nose	+	+	+	+	+	+	+	+	+	+	10
Trachea	+	+	+	+	+	+	+	+	+	+	10
<b>Special Senses System</b>											
Eye	+	+	+	+	+	+	+	+	+	+	10

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Date Report Requested: 10/22/2014

Time Report Requested: 00:43:09

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male  
0 PPM

	DAY ON TEST											
	0	0	0	0	0	0	0	0	0	0		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	*TOTALS	
	1	2	3	4	5	6	7	8	9			
Retina, Cyst						1					1	1.0
Harderian Gland	+	+	+	+	+	+	+	+	+	+	10	
Inflammation						1					1	1.0
<b>Urinary System</b>												
Kidney	+	+	+	+	+	+	+	+	+	+	10	
Nephropathy	1		1	1	1	1	1	1	1	1	9	1.0
Renal Tubule, Cyst					X						1	
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	10	

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**Species/Strain:** Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**Test Compound:** Styrene-acrylonitrile trimer  
**CAS Number:** SANTRIMER2

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:43:09  
**First Dose M/F:** NA / NA  
**Lab:** BAT

DAY ON TEST

**F 344/N Rat Male**  
**100 PPM**

ANIMAL ID

\*TOTALS

**Alimentary System**

NONE

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

NONE

**Hematopoietic System**

NONE

**Integumentary System**

NONE

**Musculoskeletal System**

NONE

**Nervous System**

NONE

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

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M ..Missing tissue

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**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**Test Compound:** Styrene-acrylonitrile trimer  
**CAS Number:** SANTRIMER2

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:43:09  
**First Dose M/F:** NA / NA  
**Lab:** BAT

DAY ON TEST

**F 344/N Rat Male**  
**100 PPM**

ANIMAL ID

\*TOTALS

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

NONE

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

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**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**Test Compound:** Styrene-acrylonitrile trimer  
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**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:43:09  
**First Dose M/F:** NA / NA  
**Lab:** BAT

DAY ON TEST

**F 344/N Rat Male**  
**200 PPM**

ANIMAL ID

\*TOTALS

**Alimentary System**

NONE

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

NONE

**Hematopoietic System**

NONE

**Integumentary System**

NONE

**Musculoskeletal System**

NONE

**Nervous System**

NONE

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+ ..Tissue examined microscopically

X ..Lesion present

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M ..Missing tissue

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1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked



**Experiment Number:** 99013-03  
**Test Type:** 18-WEEK PN  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**Test Compound:** Styrene-acrylonitrile trimer  
**CAS Number:** SANTRIMER2

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:43:09  
**First Dose M/F:** NA / NA  
**Lab:** BAT

DAY ON TEST

**F 344/N Rat Male**  
**200 PPM**

ANIMAL ID

\*TOTALS

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

NONE

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

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1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

**Experiment Number:** 99013-03  
**Test Type:** 18-WEEK PN  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**Test Compound:** Styrene-acrylonitrile trimer  
**CAS Number:** SANTRIMER2

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:43:09  
**First Dose M/F:** NA / NA  
**Lab:** BAT

DAY ON TEST

**F 344/N Rat Male**  
**400 PPM**

ANIMAL ID

\*TOTALS

**Alimentary System**

NONE

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

NONE

**Hematopoietic System**

NONE

**Integumentary System**

NONE

**Musculoskeletal System**

NONE

**Nervous System**

NONE

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+ ..Tissue examined microscopically

X ..Lesion present

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M ..Missing tissue

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BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

**Experiment Number:** 99013-03  
**Test Type:** 18-WEEK PN  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**Test Compound:** Styrene-acrylonitrile trimer  
**CAS Number:** SANTRIMER2

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:43:09  
**First Dose M/F:** NA / NA  
**Lab:** BAT

DAY ON TEST

**F 344/N Rat Male**  
**400 PPM**

ANIMAL ID

\*TOTALS

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

NONE

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

**Experiment Number:** 99013-03  
**Test Type:** 18-WEEK PN  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**Test Compound:** Styrene-acrylonitrile trimer  
**CAS Number:** SANTRIMER2

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:43:09  
**First Dose M/F:** NA / NA  
**Lab:** BAT

DAY ON TEST

**F 344/N Rat Male**  
**800 PPM**

ANIMAL ID

\*TOTALS

**Alimentary System**

NONE

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

NONE

**Hematopoietic System**

NONE

**Integumentary System**

NONE

**Musculoskeletal System**

NONE

**Nervous System**

NONE

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

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M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

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2) Mild 4) Marked

**Experiment Number:** 99013-03  
**Test Type:** 18-WEEK PN  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**Test Compound:** Styrene-acrylonitrile trimer  
**CAS Number:** SANTRIMER2

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 00:43:09  
**First Dose M/F:** NA / NA  
**Lab:** BAT

DAY ON TEST

**F 344/N Rat Male**  
**800 PPM**

ANIMAL ID

\*TOTALS

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

NONE

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

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M ..Missing tissue

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1-4 ..Lesion qualified as:

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Experiment Number: 99013-03  
 Test Type: 18-WEEK PN  
 Route: DOSED FEED  
 Species/Strain: Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Test Compound: Styrene-acrylonitrile trimer  
 CAS Number: SANTRIMER2

Date Report Requested: 10/22/2014  
 Time Report Requested: 00:43:09  
 First Dose M/F: NA / NA  
 Lab: BAT

**F 344/N Rat Male  
 1600 PPM**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	2	2	2	2	2	2	2	2	2	2
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	5	5	5	5	5	5	5	5	5	6
	1	2	3	4	5	6	7	8	9	0

**\*TOTALS**

**Alimentary System**

Esophagus	+	+	+	+	+	+	+	+	+	+	10	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10	
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10	
Liver	+	+	+	+	+	+	+	+	+	+	10	
Inflammation, Chronic	1	1	1	1	1	1	1	1	1	1	10	1.0
Pancreas	+	+	+	+	+	+	+	+	+	+	10	
Atrophy				1								1 1.0
Infiltration Cellular, Mononuclear CI	1		1						1		3	1.0
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10	
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10	

**Cardiovascular System**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10	
Heart	+	+	+	+	+	+	+	+	+	+	10	
Cardiomyopathy	1	1	1	1	1	1	1	1	1	2	10	1.1

**Endocrine System**

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

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1-4 ..Lesion qualified as:

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Experiment Number: 99013-03

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Route: DOSED FEED

Species/Strain: Rat/F 344/N

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CAS Number: SANTRIMER2

Date Report Requested: 10/22/2014

Time Report Requested: 00:43:09

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male  
1600 PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	2	2	2	2	2	2	2	2	2	2
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	5	5	5	5	5	5	5	5	5	6
	1	2	3	4	5	6	7	8	9	0

\*TOTALS

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10		
Infiltration Cellular, Mononuclear CI										1		1	1.0
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10		
Parathyroid Gland	+	M	+	+	+	+	+	+	+	M	8		
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10		
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10		
<b>General Body System</b>													
NONE													
<b>Genital System</b>													
Epididymis	+	+	+	+	+	+	+	+	+	+	10		
Preputial Gland	+	+	+	+	+	+	+	+	+	+	10		
Inflammation	1	1	1		1					1		5	1.0
Prostate	+	+	+	+	+	+	+	+	+	+	10		
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	10		
Testes	+	+	+	+	+	+	+	+	+	+	10		
<b>Hematopoietic System</b>													
Bone Marrow	+	+	+	+	+	+	+	+	+	+	10		
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	0		
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10		
Spleen	+	+	+	+	+	+	+	+	+	+	10		
Thymus	+	+	+	+	+	+	+	+	+	+	10		

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99013-03

Test Type: 18-WEEK PN

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Styrene-acrylonitrile trimer

CAS Number: SANTRIMER2

Date Report Requested: 10/22/2014

Time Report Requested: 00:43:09

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male  
1600 PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	2	2	2	2	2	2	2	2	2	2
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	5	5	5	5	5	5	5	5	5	6
	1	2	3	4	5	6	7	8	9	0

\*TOTALS

Integumentary System

Mammary Gland	+	+	+	+	+	+	+	+	+	+	10
Skin	+	+	+	+	+	+	+	+	+	+	10

Musculoskeletal System

Bone	+	+	+	+	+	+	+	+	+	+	10
------	---	---	---	---	---	---	---	---	---	---	----

Nervous System

Brain	+	+	+	+	+	+	+	+	+	+	10
-------	---	---	---	---	---	---	---	---	---	---	----

Respiratory System

Lung	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic					1			1	1		3 1.0
Nose	+	+	+	+	+	+	+	+	+	+	10
Trachea	+	+	+	+	+	+	+	+	+	+	10

Special Senses System

Eye	+	+	+	+	+	+	+	+	+	+	10
Harderian Gland	+	+	+	+	+	+	+	+	+	+	10
Inflammation								1			1 1.0

Urinary System

Kidney	+	+	+	+	+	+	+	+	+	+	10
Nephropathy	1	1	1	1	1	1	1	1	1	1	10 1.0

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked



Experiment Number: 99013-03  
 Test Type: 18-WEEK PN  
 Route: DOSED FEED  
 Species/Strain: Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: Styrene-acrylonitrile trimer  
 CAS Number: SANTRIMER2

Date Report Requested: 10/22/2014  
 Time Report Requested: 00:43:09  
 First Dose M/F: NA / NA  
 Lab: BAT

**F 344/N Rat Male**  
**1600 PPM**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	
	2	2	2	2	2	2	2	2	2	2	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	5	5	5	5	5	5	5	5	5	6	
	1	2	3	4	5	6	7	8	9	0	*TOTALS

Urinary Bladder

+ + + + + + + + + + 10

\*\*\*END OF MALE DATA\*\*\*

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99013-03  
 Test Type: 18-WEEK PN  
 Route: DOSED FEED  
 Species/Strain: Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Test Compound: Styrene-acrylonitrile trimer  
 CAS Number: SANTRIMER2

Date Report Requested: 10/22/2014  
 Time Report Requested: 00:43:09  
 First Dose M/F: NA / NA  
 Lab: BAT

**F 344/N Rat Female**  
**0 PPM**

| DAY ON TEST | 0              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------|----------------|---|---|---|---|---|---|---|---|---|
|             | 0              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 9              | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
|             | 2              | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| ANIMAL ID   | 0              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 0              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 0              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 6              | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 |
|             | 1              | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
|             | <b>*TOTALS</b> |   |   |   |   |   |   |   |   |   |

**Alimentary System**

|                            |   |   |   |   |   |   |   |   |   |   |        |
|----------------------------|---|---|---|---|---|---|---|---|---|---|--------|
| Esophagus                  | + | + | + | + | + | + | + | + | + | + | 10     |
| Intestine Large, Cecum     | + | + | + | + | + | + | + | + | + | + | 10     |
| Intestine Large, Colon     | + | + | + | + | + | + | + | + | + | + | 10     |
| Intestine Large, Rectum    | + | + | + | + | + | + | + | + | + | + | 10     |
| Intestine Small, Duodenum  | + | + | + | + | + | + | + | + | + | + | 10     |
| Intestine Small, Ileum     | + | + | + | + | + | + | + | + | + | + | 10     |
| Intestine Small, Jejunum   | + | + | + | + | + | + | + | + | + | + | 10     |
| Liver                      | + | + | + | + | + | + | + | + | + | + | 10     |
| Hepatodiaphragmatic Nodule |   |   |   | X |   |   |   |   |   |   | 1      |
| Inflammation, Chronic      | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 10 1.0 |
| Pancreas                   | + | + | + | + | + | + | + | + | + | + | 10     |
| Salivary Glands            | + | + | + | + | + | + | + | + | + | + | 10     |
| Stomach, Forestomach       | + | + | + | + | + | + | + | + | + | + | 10     |
| Stomach, Glandular         | + | + | + | + | + | + | + | + | + | + | 10     |

**Cardiovascular System**

|                |   |   |   |   |   |   |   |   |   |   |       |
|----------------|---|---|---|---|---|---|---|---|---|---|-------|
| Blood Vessel   | + | + | + | + | + | + | + | + | + | + | 10    |
| Heart          | + | + | + | + | + | + | + | + | + | + | 10    |
| Cardiomyopathy | 1 | 1 |   |   |   |   | 1 | 1 | 1 | 1 | 6 1.0 |

**Endocrine System**

|                |   |   |   |   |   |   |   |   |   |   |    |
|----------------|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | 10 |
|----------------|---|---|---|---|---|---|---|---|---|---|----|

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99013-03

Test Type: 18-WEEK PN

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Styrene-acrylonitrile trimer

CAS Number: SANTRIMER2

Date Report Requested: 10/22/2014

Time Report Requested: 00:43:09

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female  
0 PPM

| DAY ON TEST                 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID | *TOTALS |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|-----------|---------|
|                             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |         |
|                             | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |           |         |
|                             | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |           |         |
|                             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |         |
|                             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |         |
|                             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |         |
|                             | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 |           |         |
|                             | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |           |         |
| Adrenal Medulla             | + | + | + | + | + | + | + | + | + | + |           | 10      |
| Parathyroid Gland           | M | + | + | + | M | + | + | M | M | + |           | 6       |
| Pituitary Gland             | + | + | + | + | + | + | + | + | + | + |           | 10      |
| Thyroid Gland               | + | + | + | + | + | + | + | + | + | + |           | 10      |
| <b>General Body System</b>  |   |   |   |   |   |   |   |   |   |   |           |         |
| NONE                        |   |   |   |   |   |   |   |   |   |   |           |         |
| <b>Genital System</b>       |   |   |   |   |   |   |   |   |   |   |           |         |
| Clitoral Gland              | + | + | + | + | + | + | + | + | + | + |           | 10      |
| Inflammation                |   |   | 1 | 1 |   |   | 1 |   |   | 1 |           | 4 1.0   |
| Ovary                       | + | + | + | + | + | + | + | + | + | + |           | 10      |
| Uterus                      | + | + | + | + | + | + | + | + | + | + |           | 10      |
| <b>Hematopoietic System</b> |   |   |   |   |   |   |   |   |   |   |           |         |
| Bone Marrow                 | + | + | + | + | + | + | + | + | + | + |           | 10      |
| Lymph Node, Mandibular      | M | M | M | M | M | M | M | M | M | M |           | 0       |
| Lymph Node, Mesenteric      | + | + | + | + | + | + | + | + | + | + |           | 10      |
| Inflammation, Granulomatous |   |   |   | 1 |   |   |   |   |   | 1 |           | 2 1.0   |
| Spleen                      | + | + | + | + | + | + | + | + | + | + |           | 10      |
| Thymus                      | + | + | + | + | + | + | + | + | + | + |           | 10      |
| <b>Integumentary System</b> |   |   |   |   |   |   |   |   |   |   |           |         |
| Mammary Gland               | + | + | + | + | + | + | + | + | + | + |           | 10      |
| Skin                        | + | + | + | + | + | + | + | + | + | + |           | 10      |

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99013-03

Test Type: 18-WEEK PN

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Styrene-acrylonitrile trimer

CAS Number: SANTRIMER2

Date Report Requested: 10/22/2014

Time Report Requested: 00:43:09

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female  
0 PPM

|                               | DAY ON TEST |   |   |   |   |   |   |   |   |   |         |
|-------------------------------|-------------|---|---|---|---|---|---|---|---|---|---------|
|                               | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
| ANIMAL ID                     | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *TOTALS |
|                               | 6           | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 |         |
| Skin                          | +           | + | + | + | + | + | + | + | + | + | 10      |
| <b>Musculoskeletal System</b> |             |   |   |   |   |   |   |   |   |   |         |
| Bone                          | +           | + | + | + | + | + | + | + | + | + | 10      |
| <b>Nervous System</b>         |             |   |   |   |   |   |   |   |   |   |         |
| Brain                         | +           | + | + | + | + | + | + | + | + | + | 10      |
| <b>Respiratory System</b>     |             |   |   |   |   |   |   |   |   |   |         |
| Lung                          | +           | + | + | + | + | + | + | + | + | + | 10      |
| Inflammation, Chronic         |             |   |   |   |   | 1 |   | 1 |   | 1 | 3 1.0   |
| Nose                          | +           | + | + | + | + | + | + | + | + | + | 10      |
| Trachea                       | +           | + | + | + | + | + | + | + | + | + | 10      |
| <b>Special Senses System</b>  |             |   |   |   |   |   |   |   |   |   |         |
| Eye                           | +           | + | + | + | + | + | + | + | + | + | 10      |
| Harderian Gland               | +           | + | + | + | + | + | + | + | + | + | 10      |
| <b>Urinary System</b>         |             |   |   |   |   |   |   |   |   |   |         |
| Kidney                        | +           | + | + | + | + | + | + | + | + | + | 10      |
| Nephropathy                   |             | 1 | 1 |   |   |   |   |   |   |   | 2 1.0   |
| Urinary Bladder               | +           | + | + | + | + | + | + | + | + | + | 10      |

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99013-03

Test Type: 18-WEEK PN

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Styrene-acrylonitrile trimer

CAS Number: SANTRIMER2

Date Report Requested: 10/22/2014

Time Report Requested: 00:43:09

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female  
100 PPM

|             |   |   |   |   |   |   |   |   |   |   |         |
|-------------|---|---|---|---|---|---|---|---|---|---|---------|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|             | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |         |
|             | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |         |
| ANIMAL ID   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|             | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 |         |
|             | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | *TOTALS |

Alimentary System

|                            |   |  |   |       |
|----------------------------|---|--|---|-------|
| Liver                      | + |  | + | 2     |
| Hepatodiaphragmatic Nodule | X |  | X | 2     |
| Inflammation, Chronic      | 1 |  | 1 | 2 1.0 |

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

NONE

Musculoskeletal System

NONE

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99013-03

Test Type: 18-WEEK PN

Route: DOSED FEED

Species/Strain: Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Test Compound: Styrene-acrylonitrile trimer

CAS Number: SANTRIMER2

Date Report Requested: 10/22/2014

Time Report Requested: 00:43:09

First Dose M/F: NA / NA

Lab: BAT

**F 344/N Rat Female  
100 PPM**

|             |         |   |   |   |   |   |   |   |   |   |
|-------------|---------|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 9       | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
|             | 2       | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| ANIMAL ID   | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 7       | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 |
|             | 1       | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
|             | *TOTALS |   |   |   |   |   |   |   |   |   |

**Nervous System**

NONE

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

NONE

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99013-03  
 Test Type: 18-WEEK PN  
 Route: DOSED FEED  
 Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 Test Compound: Styrene-acrylonitrile trimer  
 CAS Number: SANTRIMER2

Date Report Requested: 10/22/2014  
 Time Report Requested: 00:43:09  
 First Dose M/F: NA / NA  
 Lab: BAT

F 344/N Rat Female  
 200 PPM

| DAY ON TEST | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------|---------|---|---|---|---|---|---|---|---|---|
|             | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 9       | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
|             | 2       | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| ANIMAL ID   | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 8       | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 |
|             | 1       | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
|             | *TOTALS |   |   |   |   |   |   |   |   |   |

**Alimentary System**

Mesentery + 1  
 Fat, Necrosis 1 1 1.0

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

NONE

**Hematopoietic System**

NONE

**Integumentary System**

NONE

**Musculoskeletal System**

NONE

**Nervous System**

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99013-03

Test Type: 18-WEEK PN

Route: DOSED FEED

Species/Strain: Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Test Compound: Styrene-acrylonitrile trimer

CAS Number: SANTRIMER2

Date Report Requested: 10/22/2014

Time Report Requested: 00:43:09

First Dose M/F: NA / NA

Lab: BAT

**F 344/N Rat Female  
200 PPM**

|             |   |   |   |   |   |   |   |   |   |   |         |
|-------------|---|---|---|---|---|---|---|---|---|---|---------|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|             | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |         |
|             | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |         |
| ANIMAL ID   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|             | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 |         |
|             | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | *TOTALS |

NONE  
**Respiratory System**

NONE  
**Special Senses System**

NONE  
**Urinary System**

NONE

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked



Experiment Number: 99013-03

Test Type: 18-WEEK PN

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Styrene-acrylonitrile trimer

CAS Number: SANTRIMER2

Date Report Requested: 10/22/2014

Time Report Requested: 00:43:09

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female  
400 PPM

|             |         |   |   |   |   |   |   |   |   |   |
|-------------|---------|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 9       | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
|             | 2       | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| ANIMAL ID   | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
|             | 9       | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
|             | 1       | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
|             | *TOTALS |   |   |   |   |   |   |   |   |   |

Alimentary System

|                            |  |   |  |       |
|----------------------------|--|---|--|-------|
| Liver                      |  | + |  | 1     |
| Hepatodiaphragmatic Nodule |  | X |  | 1     |
| Inflammation, Chronic      |  | 1 |  | 1 1.0 |

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

NONE

Musculoskeletal System

NONE

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99013-03  
 Test Type: 18-WEEK PN  
 Route: DOSED FEED  
 Species/Strain: Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Test Compound: Styrene-acrylonitrile trimer  
 CAS Number: SANTRIMER2

Date Report Requested: 10/22/2014  
 Time Report Requested: 00:43:09  
 First Dose M/F: NA / NA  
 Lab: BAT

**F 344/N Rat Female  
 400 PPM**

| DAY ON TEST | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------|---------|---|---|---|---|---|---|---|---|---|
|             | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 9       | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
|             | 2       | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| ANIMAL ID   | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
|             | 9       | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
|             | 1       | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
|             | *TOTALS |   |   |   |   |   |   |   |   |   |

**Nervous System**

NONE

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

NONE

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

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Experiment Number: 99013-03

Test Type: 18-WEEK PN

Route: DOSED FEED

Species/Strain: Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Test Compound: Styrene-acrylonitrile trimer

CAS Number: SANTRIMER2

Date Report Requested: 10/22/2014

Time Report Requested: 00:43:10

First Dose M/F: NA / NA

Lab: BAT

**F 344/N Rat Female  
800 PPM**

|             |         |   |   |   |   |   |   |   |   |   |
|-------------|---------|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 9       | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
|             | 2       | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| ANIMAL ID   | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 1       | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|             | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
|             | 1       | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
|             | *TOTALS |   |   |   |   |   |   |   |   |   |

**Nervous System**

NONE

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

NONE

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

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A ..Autolysis precludes evaluation

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2) Mild 4) Marked

Experiment Number: 99013-03

Test Type: 18-WEEK PN

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Styrene-acrylonitrile trimer

CAS Number: SANTRIMER2

Date Report Requested: 10/22/2014

Time Report Requested: 00:43:10

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female  
1600 PPM

| DAY ON TEST | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------|---------|---|---|---|---|---|---|---|---|---|
|             | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 9       | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
|             | 2       | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| ANIMAL ID   | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|             | 1       | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|             | 1       | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
|             | 1       | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
|             | *TOTALS |   |   |   |   |   |   |   |   |   |

Alimentary System

|                                       |   |   |   |   |   |   |   |   |   |   |        |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|--------|
| Esophagus                             | + | + | + | + | + | + | + | + | + | + | 10     |
| Intestine Large, Cecum                | + | + | + | + | + | + | + | + | + | + | 10     |
| Intestine Large, Colon                | + | + | + | + | + | + | + | + | + | + | 10     |
| Intestine Large, Rectum               | + | + | + | + | + | + | + | + | + | + | 10     |
| Intestine Small, Duodenum             | + | + | + | + | + | + | + | + | + | + | 10     |
| Intestine Small, Ileum                | + | + | + | + | + | + | + | + | + | + | 10     |
| Intestine Small, Jejunum              | + | + | + | + | + | + | + | + | + | + | 10     |
| Liver                                 | + | + | + | + | + | + | + | + | + | + | 10     |
| Hepatodiaphragmatic Nodule            |   |   | X |   |   |   |   |   |   |   | 1      |
| Inflammation, Chronic                 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 10 1.0 |
| Pancreas                              | + | + | + | + | + | + | + | + | + | + | 10     |
| Infiltration Cellular, Mononuclear CI |   |   |   | 1 |   |   | 1 | 1 | 1 |   | 4 1.0  |
| Salivary Glands                       | + | + | + | + | + | + | + | + | + | + | 10     |
| Stomach, Forestomach                  | + | + | + | + | + | + | + | + | + | + | 10     |
| Stomach, Glandular                    | + | + | + | + | + | + | + | + | + | + | 10     |
| Glands, Ectasia                       |   |   |   |   |   |   | 1 |   |   |   | 1 1.0  |
| Inflammation                          |   |   |   | 1 |   |   |   |   |   |   | 1 1.0  |

Cardiovascular System

|                |   |   |   |   |   |   |   |   |   |   |       |
|----------------|---|---|---|---|---|---|---|---|---|---|-------|
| Blood Vessel   | + | + | + | + | + | + | + | + | + | + | 10    |
| Heart          | + | + | + | + | + | + | + | + | + | + | 10    |
| Cardiomyopathy | 1 | 1 | 1 | 1 | 1 | 1 |   |   | 1 |   | 7 1.0 |

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

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A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99013-03

Test Type: 18-WEEK PN

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Styrene-acrylonitrile trimer

CAS Number: SANTRIMER2

Date Report Requested: 10/22/2014

Time Report Requested: 00:43:10

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female  
1600 PPM

|             |   |   |   |   |   |   |   |   |   |   |         |
|-------------|---|---|---|---|---|---|---|---|---|---|---------|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|             | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |         |
|             | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |         |
| ANIMAL ID   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|             | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |         |
|             | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |         |
|             | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | *TOTALS |

Endocrine System

|                   |   |   |   |   |   |   |   |   |   |   |    |
|-------------------|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex    | + | + | + | + | + | + | + | + | + | + | 10 |
| Adrenal Medulla   | + | + | + | + | + | + | + | + | + | + | 10 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | 10 |
| Pituitary Gland   | + | + | + | + | + | + | + | + | + | + | 10 |
| Thyroid Gland     | + | + | + | + | + | + | + | + | + | + | 10 |

General Body System

NONE

Genital System

|                                  |   |   |   |   |   |   |   |   |   |   |       |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|-------|
| Clitoral Gland                   | + | + | + | + | + | + | + | + | + | + | 10    |
| Inflammation                     |   |   | 1 |   |   | 1 |   |   | 1 | 1 | 4 1.0 |
| Ovary                            | + | + | + | + | + | + | + | + | + | + | 10    |
| Inflammation, Granulomatous      |   |   | 2 |   |   |   |   |   |   |   | 1 2.0 |
| Uterus                           | + | + | + | + | + | + | + | + | + | + | 10    |
| Endometrium, Hyperplasia, Cystic |   |   |   |   |   |   |   | 2 |   |   | 1 2.0 |

Hematopoietic System

|                             |   |   |   |   |   |   |   |   |   |   |       |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|-------|
| Bone Marrow                 | + | + | + | + | + | + | + | + | + | + | 10    |
| Inflammation, Granulomatous |   |   | 2 |   |   |   |   |   |   |   | 1 2.0 |
| Lymph Node                  |   |   |   |   |   |   |   |   |   | + | 1     |
| Pancreatic, Hemorrhage      |   |   |   |   |   |   |   |   |   | 1 | 1 1.0 |
| Lymph Node, Mandibular      | M | M | M | M | M | M | M | M | M | M | 0     |

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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Test Type: 18-WEEK PN

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Styrene-acrylonitrile trimer

CAS Number: SANTRIMER2

Date Report Requested: 10/22/2014

Time Report Requested: 00:43:10

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female  
1600 PPM

|  | DAY ON TEST |   |   |   |   |   |   |   |   |   |                |     |  |
|--|-------------|---|---|---|---|---|---|---|---|---|----------------|-----|--|
|  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                |     |  |
|  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                |     |  |
|  | 9           | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |                |     |  |
|  | 2           | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |                |     |  |
| ANIMAL ID                                | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                |     |  |
|  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                |     |  |
|  | 1           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |                |     |  |
|  | 1           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |                |     |  |
|  | 1           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |                |     |  |
|  | 1           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | <b>*TOTALS</b> |     |  |
| Lymph Node, Mandibular                   | M           | M | M | M | M | M | M | M | M | M | 0              |     |  |
| Lymph Node, Mesenteric                   | +           | + | + | + | + | + | + | + | + | + | 10             |     |  |
| Inflammation, Granulomatous              |             |   | 1 |   |   | 1 |   |   |   |   | 2              | 1.0 |  |
| Spleen                                   | +           | + | + | + | + | + | + | + | + | + | 10             |     |  |
| Thymus                                   | +           | + | + | + | + | + | + | + | + | + | 10             |     |  |
| <b>Integumentary System</b>              |             |   |   |   |   |   |   |   |   |   |                |     |  |
| Mammary Gland                            | +           | + | + | + | + | + | + | + | + | + | 10             |     |  |
| Skin                                     | +           | + | + | + | + | + | + | + | + | + | 10             |     |  |
| <b>Musculoskeletal System</b>            |             |   |   |   |   |   |   |   |   |   |                |     |  |
| Bone                                     | +           | + | + | + | + | + | + | + | + | + | 10             |     |  |
| <b>Nervous System</b>                    |             |   |   |   |   |   |   |   |   |   |                |     |  |
| Brain                                    | +           | + | + | + | + | + | + | + | + | + | 10             |     |  |
| <b>Respiratory System</b>                |             |   |   |   |   |   |   |   |   |   |                |     |  |
| Lung                                     | +           | + | + | + | + | + | + | + | + | + | 10             |     |  |
| Inflammation, Chronic                    |             |   | 1 | 2 |   |   | 1 | 1 | 1 | 1 | 6              | 1.2 |  |
| Nose                                     | +           | + | + | + | + | + | + | + | + | + | 10             |     |  |
| Olfactory Epi, Inflammation, Suppurative |             |   |   |   |   |   |   |   |   | 1 | 1              | 1.0 |  |
| Trachea                                  | +           | + | + | + | + | + | + | + | + | + | 10             |     |  |
| <b>Special Senses System</b>             |             |   |   |   |   |   |   |   |   |   |                |     |  |
| Eye                                      | +           | + | + | + | + | + | + | + | + | + | 10             |     |  |

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X ..Lesion present

I ..Insufficient tissue

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Experiment Number: 99013-03

Test Type: 18-WEEK PN

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Styrene-acrylonitrile trimer

CAS Number: SANTRIMER2

Date Report Requested: 10/22/2014

Time Report Requested: 00:43:10

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female  
1600 PPM

|                       | DAY ON TEST |   |   |   |   |   |   |   |   |   |         |
|-----------------------|-------------|---|---|---|---|---|---|---|---|---|---------|
|                       | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|                       | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|                       | 9           | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |         |
|                       | 2           | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |         |
| ANIMAL ID             | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *TOTALS |
|                       | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|                       | 1           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |         |
|                       | 1           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |         |
|                       | 1           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |         |
| Harderian Gland       | +           | + | + | + | + | + | + | + | + | + | 10      |
| Inflammation          |             |   |   | 3 |   |   |   | 1 |   | 1 | 3 1.7   |
| <b>Urinary System</b> |             |   |   |   |   |   |   |   |   |   |         |
| Kidney                | +           | + | + | + | + | + | + | + | + | + | 10      |
| Nephropathy           |             |   |   |   |   |   |   | 1 |   | 1 | 2 1.0   |
| Urinary Bladder       | +           | + | + | + | + | + | + | + | + | + | 10      |

\*\* END OF REPORT \*\*

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+ ..Tissue examined microscopically

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